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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,853	03/31/2004	Jens Wolber	10191/3515	5572
26646	7590	03/24/2008	EXAMINER	
KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004			MILLER, CARL STUART	
ART UNIT	PAPER NUMBER			
	3747			
MAIL DATE	DELIVERY MODE			
03/24/2008	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/813,853	WOLBER ET AL.	
	Examiner	Art Unit	
	Carl S. Miller	3747	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 10 December 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-17 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 3-5,7,8,10,11 and 14-16 is/are allowed.

6) Claim(s) 1-2, 6, 9, 12-13 and 17 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2, 6, 9, 12-13 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Djordjevic in view of Klinger.

Klinger teaches the use of two pumps on the same shaft and used to feed a fuel rail. One of the pumps can be disabled in order to reduce the number of pump strokes per rotation of the shaft thereby resulting in the correct fuel pressure in the rail. The two pumps are controlled by separate magnetic spill valves (4).

Djordjevic teaches a radial pump having three pump pistons which is the type of pump used by the applicant. The pump piston output is varied by the use of a single spill valve for all of the pistons. This valve spills fuel back to the low-pressure source of the pumps. The exact way the pumps are controlled is not disclosed, but the control is disclosed as varying with engine parameters- including speed.

It would have been obvious to modify Djordjevic by using the single valve taught by the reference to eliminate one of the pumping strokes of the pump as suggested by Klinger system since both systems were feeding similar high-pressure injection engines and the Klinger device eliminated a pump stroke when lower fuel quantities were needed.

Claims 3-5, 7-8, 10-11 and 14-16 are allowed.

Applicant's arguments filed 12/10/07 have been fully considered but they are not persuasive. In particular, the examiner has altered his rejection slightly because the applicant has amended his claims to emphasize the use of a single drive shaft and a single valve in his invention. Djordjevic teaches both of these features. In fact, the applicant should note that his Figure 1 shows a schematically disclosed pump (that could have three radial pistons) wherein a single valve is used to alter pump output. The same is true of Figure 1 in Djordjevic. Furthermore, both devices spill fuel upstream of the outlet check valve. The only explicit teaching needed from Klinger is his use of a single spill valve to completely eliminate the flow from one of the pump pistons when less fuel is needed by the engine. Operating the single spill valve of Djordjevic in this manner would have been obvious to one of ordinary skill in the art as an alternate way of reducing the pump output in low load situations and this use of the single spill valve would have represented a use of a prior art element according to its established function with predictable results.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl S. Miller whose telephone number is 571-272-4849. The examiner can normally be reached on MTWTHF. The examiner can also be reached on alternate 410-997-2137

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Cronin, can be reached on 571-272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Carl S. Miller/
Primary Examiner, Art Unit 3747

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